

IN THE CLAIMS

Please amend the claims as follows.

1-12. (Cancelled)

13. (Currently amended) A holographic stereogram exposure apparatus for exposing three-dimensional image information on a hologram recording medium to produce a holographic stereogram, said apparatus comprising:

spatial light modulation section having a plurality of portions in a parallax direction, a portion of said plurality of portions displaying an image of a plurality of adjacent images, each of said plurality of adjacent images corresponding to a respective element hologram;

an overlay projection optical system receiving a light beam that has passed through said plurality of portions and superposing said plurality of adjacent images displayed on said spatial light modulation section to form a superposed image of said plurality of adjacent images; and

a beam-condensing projection optical system condensing said superposed image in said parallax direction and separating said plurality of adjacent images from said condensed superposed image in said parallax direction,

said plurality of adjacent images being separated from said condensed superposed image for recording onto said hologram recording medium, a separated image of said separated plurality

of adjacent images being recorded onto said hologram recording medium adjacent in said parallax direction to another separated image of said separated plurality of adjacent images.

14. (Currently amended) The holographic stereogram exposure apparatus according to claim 13, further including a reference beam optical system that projects a reference beam onto said hologram recording medium for interference with said plurality of adjacent images projected on said hologram recording medium.

15. (Previously presented) The holographic stereogram exposure apparatus according to claim 13, wherein said spatial light modulation section is divided into a horizontal direction.

16. (Previously presented) The holographic stereogram exposure apparatus according to claim 13, wherein said spatial light modulation section is divided into both vertical and horizontal directions.

17. (Previously presented) The holographic stereogram exposure apparatus according to claim 13, wherein said beam-condensing projection optical system projects said superposed image onto said hologram recording medium in a non-parallax direction.

18. (Previously presented) The holographic stereogram exposure apparatus according to claim 13, wherein said beam-condensing projection optical system uses a first-group lens and a second-group lens to guide said superposed image to a beam-condensing cylindrical lens.

19. (Previously presented) The holographic stereogram exposure apparatus according to claim 18, wherein said beam-condensing projection optical system is provided with a correction lens between said first-group lens and said second-group lens for correcting unevenness of the angle of field for each element hologram on said hologram recording medium.

20. (Currently amended) The holographic stereogram exposure apparatus according to claim 13, wherein said separated plurality of adjacent images is simultaneously recorded onto said hologram recording medium.

21. (Currently amended) The holographic stereogram exposure apparatus according to claim 13, wherein said image is recorded onto said hologram recording medium separated from and adjacent to said another image ~~separated plurality of images is recorded onto said hologram recording medium in said parallax direction.~~

22. (Currently amended) A holographic stereogram generation system for recording three-dimensional image information on a

hologram recording medium and generating a holographic stereogram, comprising:

an image generation system generating a plurality of adjacent images in a parallax direction, said image generation system including a spatial light modulation section having a plurality of portions in said parallax direction, a portion of said plurality of portions displaying an image of said plurality of adjacent images, each of said plurality of adjacent images corresponding to a respective element hologram;

an overlay projection optical system receiving a light beam that has passed through said plurality of portions and superposing said plurality of adjacent images displayed on said spatial light modulation section to form a superposed image of said plurality of adjacent images; and

a beam-condensing projection optical system condensing said superposed image in said parallax direction and separating said plurality of adjacent images from said condensed superposed image in said parallax direction,

said plurality of adjacent images being separated from said condensed superposed image for recording onto said hologram recording medium, a separated image of said separated plurality of adjacent images being recorded onto said hologram recording medium adjacent in said parallax direction to another separated image of said separated plurality of adjacent images.

23. (Currently amended) The holographic stereogram generation system according to claim 22, wherein said separated plurality of adjacent images is simultaneously recorded onto said hologram recording medium.

24. (Previously presented) The holographic stereogram generation system according to claim 22, wherein said image is recorded onto said hologram recording medium separated from and adjacent to said another image ~~separated plurality of images is recorded onto said hologram recording medium in said parallax direction.~~

25. (Currently amended) A holographic stereogram exposure method of exposing three-dimensional image information onto a hologram recording medium to produce a holographic stereogram, said method comprising:

displaying a plurality of adjacent images in a parallax direction, each of said plurality of adjacent images corresponding to a respective element hologram;

forming a plurality of divided light beams, a divided light beam of said plurality of divided light beams being a light beam passed through a image of said displayed plurality of adjacent images;

superposing said plurality of divided light beams to form a superposed image of said displayed plurality of adjacent images;

condensing said superposed image in said parallax direction;

separating said condensed superposed image into said plurality of adjacent images, said plurality of adjacent images being separated in said parallax direction; and

recording said separated plurality of adjacent images onto said hologram recording medium, a separated image of said separated plurality of adjacent images being recorded onto said hologram recording medium adjacent in said parallax direction to another separated image of said separated plurality of adjacent images.

26. (Currently amended) A holographic stereogram exposure method of claim 25, wherein said separated plurality of images is simultaneously recorded onto said hologram recording medium.

27. (Currently amended) A holographic stereogram exposure method of claim 25, wherein said image is recorded onto said hologram recording medium separated from and adjacent to said another image ~~separated plurality of images is recorded onto said hologram recording medium in said parallax direction.~~